

I/WE CLAIM:

1. A noise cancellation system comprising:
 - a headphone including a sound transducer and a headphone speaker;
 - 5 noise cancellation circuitry remote from the headphone supplying the headphone speaker and being supplied from the sound transducer; and,
 - a filter to normalize the output from the sound transducer of the headphone to the noise cancellation circuitry.
- 10 2. A noise cancellation system as claimed in claim 1 wherein the filter is located at the output of the sound transducer to enable effective noise cancellation to be achieved in use.
- 15 3. A noise cancellation system filter as claimed in claim 2 wherein the filter comprises a passive electronic filter.
4. A noise cancellation system filter as claimed in claim 3 wherein the filter comprises a resistor/capacitor network.
5. A noise cancellation system filter as claimed in claim 4 wherein the filter is a high 20 pass filter in parallel with the sound transducer.
6. A noise cancellation system as claimed in claim 1 wherein the sound transducer comprises an electret condenser microphone.
- 25 7. A headphone for a noise cancellation system comprising:
 - one or more headphone speakers for providing sound to a user;
 - at least one sound transducer provide din the headset adjacent to the speaker; and,

wherein the output of the sound transducer is provided as an electric signal and is provided to a filter, and the output of the filter is available to noise cancellation circuitry to cancel noise from the signal being delivered to the speaker.

5 8. A headset as claimed in claim 7 wherein the filter is a high pass filter.